High Speed, Whether Of Man or Vehicle, Eats Up Vital Tissue

its life speed and load, or burden bed, then he dies. In the motor Some of us, like certain pieces of car slight wear at first predicts impending preakage, then excessive we can so beyond the normal speed of living for a short while. can go beyond the normal wear comes of living for a short while. to require That brings into action our remotor car just so many parts can serve energy, but we cannot work be replaced so many times and then and then collapsing. A racing car is purposely designed to run at the servicing is high, its broken high speed, but it, can do so for down structure needs more help enly five or six hours and then it and attention in the form of fuel, parts, it changes molecular struc-tures, it bends heavy and other-When a motor car is new the it bends heavy and otherwise stiff steel shafts. Speed may be converted into the antithesis of be converted into the antithesis of than 20 or 25 miles per hour for the first 500 miles. This is to men and motor cars. Mariners are to wear-in well. If made to work noted for their long average span at excessive speeds the parts will slow, even pace: they eat slowly, to high and the metal wears rapthey are methodical. They rarely idly. But speed in any kind of a work or play at high speed, for their surroundings indicate and ful. Slippery oil is provided for suggest ordinary, consistant living every moving part so that the and acting. The dweller in the big metals will not come together to city whose habits are such as to wear, but excessive speed so interkeep him working and playing at feres with lubrication as to nullify high speed does not live to the it.
ripe old age of the sea-faring brother. The speed of the city reices the average life to something like forty-two years.

Men and Cars. These types of men may be compassenger automobile, though deset of wrist pins, in running 4 of signed for normal operation over 5 miles at high speed. and it has the necessary safety fac-

piece of machinery there are little worse and can do less use-wo impertant factors governing ful work, then he is confined to continuously without the whole machine is useless and ising up that reserve completely even during its life of speed it becomes expensive to operate because ready for complete overhauling. oil and repairs—but then it is too peed wears away the moving late to stop the ever-increasing

owner is told not to drive it more logical comparison between allow the stiff, closely-fitted parts They work at a fairly not lubricate well, heat becomes

Burning Up Cars.

Passenger car engines are not de-signed for sustained high speed, yet how many drivers on the road will hold the car at 40 to 50 or, even 55 miles per hour for as far pared directly with the racing car as the road permits. Even stretches and the passenger car, the one a short-lived, fast vehicle and the moving parts. In some enother designed for normal opera-gines it is possible to do \$150 tion over a long period. But a worth of damage by "burning" a

a long period, is all too frequently It is natural for the driver with strained, almost to the limit, by a fine stretch of concrete road excessive speed and load. If these ahead of him, to "open her up," two never existed in its life for but let your better judgment rule period, the car would and consider the possible damage twice as long as the average to the car. In Brooklyn, N. now indicates. It is very true that there is an old four-cylinder air possesses the reserve to go fast cooled car that was made ni 1904 The car has run upwards of 400 tors in its structure to withstand 000 miles and is still running. The everburden, but in time, all too man who owns it is old, and he short a time, the machine breaks operated the car in somewhat the

PILOTS



ERNEST BLACK-General manager for the Oldsmobile Sales Company, Washington distributor for the Oldsmobile. Mr. Black who has been identified with automotive trade for several years is making sales records for his firm and maintaining the sort of service that lifts a firm above the average. Black is exceptionally well fitted for his position by his thorough experience in every branch of the automobile business. He is the clean cut, businesslike sort of a man you would expect to find as pilot of an Oldsmobile organiza-

run faster than thirty miles per but under high speed and high hour at any time, on rough roads load conditions they will show signs the speed is reduced to that of walk of wear in 10,000 or less. The owner is never in a hurry. 100,000 miles if the same care is in 500 miles.
taken in operating it and lubricating In a test event not so long ago and adjusting it. A French Lavas a car manufacturer operated his sor single-cylinder car is thirty years old. No record has been kept of the mileage, but the abbe who owns car would do. He discovered among it has used it practically every day other things that the universals of its thirty-year life so far—and would not hold grease for more than the car is still running. It is not a 1,500 miles. He discovered this car that is capable of high speed. when one of the universals started built by the French manufacturer. In previous tests these same joints but even if it were, its owner would

Speed is Destruction.

Speed under ideal conditions (per fect lubrication and fit of the parts) we can show, destructive of life in an automobile, so how much more destructive is speed under unfavorable conditions. In this category we may place bad lubrication due to a worn oil pump, worn beautings or beautings of high many like than he would if worked bearings, or because of dirty oil or the wrong grade of oil, or perhaps at high speed continuously.

Gearing in a motor car. cheap oil that breaks down and does used in the transmission and rear not lubricate well. This applies not alone to the en-

parts. The average car owner is not ing pick up this oil. An insuffici-so particular about having the ent quantity of oil in the housing wheels' bearings packed with fresh is thrown about by centrifugul lubricant at least twice each year. force and hardly wets the gear He lets this operation go until the bearings give trouble, and they give trouble because they run hot and fall and transmission troubles due to to pieces. These bearings run at high speed even when your car is traveling at thirty miles per hour, and unless lubricant of the right these units and this is utterly kind always is present, excessive wrong, heat and wear are bound to occur. Greas heat and wear are bound to occur. In engine bearings you have a soft metal made of babbitt. It is designed to accept a very heavy load—the explosion in the cylinders, and with this force, plus others which with this force, plus others which suggested. The owner should take may total many tons, it must not touch the crankshaft, which it supports or on which it runs. The oil through breaking up of the lubrifilm is the only medium keeping the cant. The housing levels on most bearing surface and the crankshaft cars should be checked at least journals or crankpins separated. Under high-speed conditions that oil makes once a week is necessary film may break down for a few secfilm may break down for a few seconds at a time, perhaps for thirty seconds. The driver does not know of it because the wear is slight for

at no time at its maximum speed and full load. It should be treated with some consideration if you want to then you must be satisfied with make it last a long time and cost early repair bills if this sort of little to operate during that time.

The fan bearing of an engine

The fan bearing of an engine operates at higher-than-engine speed and despite the usual belief there is considerable load on it. It is the first engine bearing to show signs of wear and needs but slight neglect to make it noisy. Closely following to make it noisy. Closely following Speed, sustained speed did it in the fan bearing come the generathe fan bearing come the genera-tor bearings, which also operate at high speed. Oil is used for lubri-erated, will last for many years cation of the generator bearings, the feed being through a small snap-cover cup or through a ball valve. Neither provides the ideal method to make it easy for the owner to oil these bearings, especially when the oil can filler spout is too large to get into these oil openings. The result is that these high-speed parts run dry and con-The result is that these sequently the generator aramture soon strikes the pole pieces. This produces a loud, squeaking noise at first, then a knocking sound. By that time it is too late for oiling and the owner is taxed for a new armature, perhaps a new generator.

The clutch operates always at engine speed, so does the transmission and propeller shaft, yet how many owners ever consider the universal joints on this latter shaft? Here are parts which are always moving because of irregularities in the road ever so slight. The joints must give universal action and at the same time turn the shaft around -drive the entire car. Under normal speed conditions these joints if lubricated will last for 20,000 miles,

ing. The owner is never in a hurry. lubricated and run at high speed. That 1904 model will last another they may go to pieces altogether lubricated and run at high speed

being one of the earliest models to knock, due to lack of grease. showed fine results, but in this test the car was run at sustained there were interruptions every few hours. This is a very important hours. point to be considered and is easy to see when the analogy to a human

Gearing in a motor car, such as axle, must run continuously in a bath of oil. The housings in which gine and its accessories, but to the clutch, transmission, universal joints, to contain a thick oil up to a ceraxles, wheels and all other moving tain level, and the gears in revolv-

Grease packs itself on the sides once every two months, on some not retain the lubricant.

When driving on a tour it is far better to run at twenty miles that particular failure, but it is the per hour and retain it, than it is multiplication of these small lubrito speed up to forty-five miles per cating failures that eats the very life out of the bearings and the crank-drop back to fifteen because you shaft. You must change the oil in the crankcase frequently—say every 500 high speed, or at least there should not be. The fact that meet a certain boat or train may urge you to open the throttle, but practice is made a general thing. Many owners of good makes of more than the average now does, if it is driven at a reasonable maximum speed.

> AUTOMOTIVE ACCESSORIES CO. IMPROVES STATION

Extensive improvements have ust been completed by the Automotive Accessories Company, which conducts a large filling station and accessory business at the northeast corner of Tenth and E streets northwest. A large tile canopy has been placed over the pump platform and several oil and gasoline pumps have been added, drive-ways have been widened, and other improvements made to facilitate the filling service. This well-known downtown station is in charge of Henry J. Sterzer. William T. and C. E. Galliher and Allan E. Walker are the proprietors

Contracts Let for Resurfacing Highway From Hyattsville To Washington.

Contracts for the paving of the Ram's Horn road leading from Hy attsville to Washington have been let by John N. Mackall, chairman of the Maryland State Highway Commission, according to reports received by officials of the American Automobile Association.

The paving of this road will fill a long-felt want to District motor-ists who have occasion to visit Hyattsville and other nearby points of that section, in that it will un-doubtedly relieve traffic on the Bladensburg road and will make it possible to reach Hyattsville without crossing the dangerous grade crossing at that point. This road will also enable the residents of nearby Maryland to motor to the northwest section of Washington without passing through the congested downtown traffic of this city, and will undoubtedly increase travel between these two sections

Several months ago officials of the A. A. A., together with city officials of Hyattsville, made a trip section and approved a movement vestigate. Owing to a shortage of transportation, Mr. Mackall will be unable to of the motor vehicles produced in get the work finished this year, the United States this year, apcompleted early next spring.

The Mut Motorist

The following article was awarded first prize in a recent "Knocker Contest," conducted by the Syracuse Journal: I knock the mut motorist

He leaves the curb without signal-stops suddenly in traffic without warning.

He uses his horn instead of his brakes in a street filled with playing children.

He steals places in traffic and "cuts in" regardless. Overtakes and passes another car near the brow of a hill or on Stops his car on a curve in

the road without getting out of the roadway.

He hogs the road.

His lights are blinding, nor will he dim them—damn him. He drives with a snoot full. He is a curse-an abomina tion-an affliction to humanity I knock him.

License Tag 700,000.

The automobile division of the Pennsylvania State highway department recently issued license tag 700,000 to Gov. William C. No. Sproul. He has five other cars, which carry license numbers 7, 77, 777, 7777 and 77,777.

Look for Lost Parts.

When a sound is heard as if something has fallen off the car, it is of inspection over the roads of this best to stop and go back and in-Tools and other parts inaugurated at Hyattsville for the are sometimes left on the running paving of the Ram's Horn road board. Tires, license plates, lamps, Before any official action could be and many other parts of the car taken, Commissioner Mackall acted. easily work loose and fall off.

Of the motor vehicles produced in he promises that it will be proximately 70 per cent will sell

LOS ANGELES COPS USING 54 MOTORS

Dodge Brothers Car Is Selected to Aid in War on Criminals.

Ambulance, shotgun work, rawn brokers squads, plain clothes activities and traffic work will be handled through the latest acquisition of fifty-four automobiles which has just been made by the Los Angeles police department. The demand for speedy movement necessitated the adoption of the automobile in all police ac tivities and after this came about ing to the Frye Motor Company, the winnowing out process to defor the various kinds of official work. latter part of August and continues

Through the order given by the stronger every day. Los Angeles police department for fifty-four Dodge Brothers motor cars, being reported by Liberty dealers the local guardians of the peace, have placed their seal of approval upon this make of cars. The uses to is now rushing plans for producwhich they place an automobile are tien of its closed models. This may varied in the extreme and leave no

ly ushers in the closed-car selling be available, season. Not so this year. Accord- buyers to the Liberty salesrooms.

An engine heat indicating

device is quite an essential piece of equipment during cold weather, and almost neces-sary if a radiator shutter, cover or water thermostat is used, so that the driver may know just how warm the engine is running. Since so much depends on engine heat, every car ought to be equipped with a device of this kind, whether the type that is mounted on the radiator cap or the newer form in which an indicating dial is mounted

WATCH HEAT

on the dash. The thermostat in the wa ter line is a means of obtain ing automatic engine heat control and is now made in several forms for installation on any make of car.

local distributors for the Liberty termine the best machine adapted Six, closed-car buying started the

In fact, the same experience is question as to the service demanded. be accounted for, in part, by the beautifully designed new Commander Coupe which was announced some weeks ago, and which caught on with the motoring public imme-

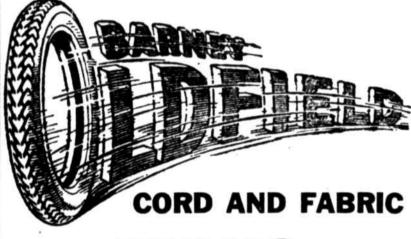
The car is considered to be one of the smartest of the two-passenger closed models ever produced, and this together with the information that it vill have a companion in a The first touch of autumn usual new four-passenger coupe, soon to



Gown. Sometimes there is warning same fashion as he conducts his as there is in a man. He gets own life. The car has never been **MOTORISTS** GET

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	32x3½	22.95	16.80	
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	32x4	29.15	21.75	
	33x4	30.05	22.60	
	34x4	30.85	23.15	
	32x41/2	37.70	24.85	
	33x41/2	38.55	26.45	
	34x41/2	39.50	28.00	
	35x4½	40.70	28.85	
	36x4½	41.55	29.50	1
	33x5	46.95	32.85	
	35x5	49.30	35.55	
	37x5	51.85	37.75	
•	09	FABRIC TIRE	S	
	30x3	\$10.15	\$7.50	
	30x3½	12.10	8.50	
	"999" ANTI-SKID FABRIC TIRES			
	30x3 \$7.99 \$6.95			
	30x3½	8.99	7.95	
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